

Earth Science Technology Office

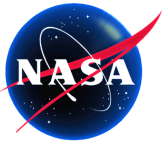
Advanced Information Systems Technology (AIST)

*Briefing to the Earth Science
Technology Strategy Team
April 28-29, 1999*

S. Smith 4/29/99

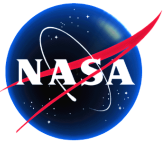
ESTO

Earth Science Technology Office



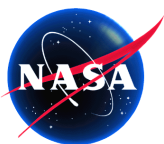
Status

- **AIST Request For Information (RFI) released on March 18, 1999**
 - Responses due May 18, 1999
- **RFI requested responses to be framed against a backdrop of**
 - Mission Operations Architecture Study, June 1997
 - Post-202 Mission Planning Workshop, Easton, MD, August 1998
 - Conceptual Earth Science (ES) Vision Presentation, January 1999
 - New Data and Information Systems and Services (DISS), Mid-April 1999
 - Earth Science Information Partners (ESIP) Federation Prototype Homepage
 - Digital Earth Homepage
- **Responses will be parsed into six groups**
 - Data Collection Process: On-board and/or in-situ acquisition, processing
 - Transmission: Compression, direct broadcast, networks
 - Data and Information Production: High-end processing, scheduling, archival, metadata warehouse, publication (advertisement), distributed interdependent products



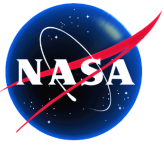
Status (Cont.)

- **Responses will be parsed into six groups (Cont.)**
 - **Analysis, Search, and Display:** Browse, interoperable catalogs, distributed resource discovery, content-based search and retrieval, data mining, data fusion, intelligent agents, visualization
 - **Systems Management:** Autonomous operations (onboard or ground), decision support, user services
 - **Infrastructure:** Distributed, heterogeneous architectures/frameworks, open systems interfaces and protocols, data and/or metadata structures
- **Met with NASA HQ Code Y Procurement Liaison regarding several issues**
 - RFI Panel member participation vs. NRA bidding
 - NRA process, boilerplate, and timeline
- **Topic and executive panel leads and membership identified**
 - Representatives from across the Agency, Academia, and Industry
 - Aerospace Corporation tasked to support review and act as recorder
- **Evaluation criteria and form being developed**



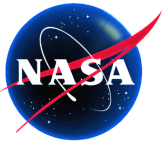
AIST RFI Panel

AIST RFI Panel	NASA Lead	Aerospace Rappateur	Earth Scientist	NASA Tech	University Tech	Gov't/Industry Tech	back-ups
Synthesis Panel	Steve Smith/ESTO	C. Raghavendra	Mark Abbott/OSU	Walt Brooks/ARC Karen Moe/GSFC	Randy Davis/UColorado	Sam Coleman/LLNL (CAN)	
1. Data Collection Process	Pepper Hartley/ESTO	Sergio Alvarado	Bill Barnes/GSFC	John Chapman/LaRC Dan DeVito/GSFC	Randy Davis/UColorado	Brian Williams/MIT (ARC)	Andrew Blanchard/U Mo (CAN)
2. Transmission	Christine Falsetti/ARC	C. Raghavendra	Mark Abbott/OSU (NewDISS)	Frank Kuykendall/JPL	Dick Muntz/UCLA (ESIP)	Dick desJardins/NISN	Art Gaylord/UMass (CAN)
3. Data & Information Production	Dave Nichols/JPL	Ronald Seldon	Mike Goodman/MSFC (ESIP)	Subash Saini/ARC	Ron Weaver/UColorado (DAAC)	Sam Coleman/LLNL (CAN)	Mike Folk/U III NCSA
4. Discovery & Analysis	Gail McConnaughey / GSFC	April Gillam	Annette Schloss/UNH (ESIP)	Horace Mitchell/GSFC (DE)	Sara Graves/UAH (ESIP)	Chung-Sheng Li/IBM (ESIP)	Peter Cheeseman/ARC
5. Systems Management	Julie Breed/GSFC	Walter Green	Steve Wharton/GSFC (DAAC)	Robert Kudlinski/LaRC	Dave Thurman/Ga Tech (PNNL)	Lyn Olson/USGS (DAAC)	Chris Justice/UVa
6. Infrastructure	D. Tweten/ARC	Judith Kerner	Jim Frew/UCSB (ESIP)	Richard McGinnis/LaRC (DAAC)	Doug Johnston/U III (CAN)	Tom Lasinski/LLNL (ARC)	Menas Kafatos/GMU (ESIP)
ESIP Federation CAN DE-Digital Earth ESIP-Federation member							



Planned Activities

- **RFI closes on May 18, 1999**
 - Parse White Paper responses by technology category and mail to reviewers by the end of May
 - Reviewers have four weeks to review papers
- **Hold RFI Evaluation Workshop June 29 - July 1, 1999**
- **Begin development of focused NRA**
- **Release NRA by late September 1999**



Schedule

